

Title (en)  
REDUCED-EMISSIONS COMBUSTION

Title (de)  
EMISSIONSREDUZIERTE VERBRENNUNG

Title (fr)  
COMBUSTION A EMISSIONS REDUITES

Publication  
**EP 1856383 B1 20121017 (EN)**

Application  
**EP 06733748 A 20060119**

Priority  
• US 2006001812 W 20060119  
• US 3828805 A 20050119

Abstract (en)  
[origin: US2005164139A1] An improved, robust diesel emission control system employs a lightly diesel particulate filter (DPF), preferably with a platinum containing fuel borne catalyst (FBC) in the fuel. The DPF is preferably of wire mesh construction and at least partially lightly catalyzed with precious metal catalyst, e.g., platinum group metal, having a metal loading of from about 3 to 15 grams per cubic foot to minimize formation of NO<SUB>2</SUB> in the exhaust gas. Preferred fuel borne catalyst levels will be low, e.g., from 0.05 to 0.5 ppm for platinum and 3 to 8 ppm for cerium and/or iron, thereby providing effective engine out emissions reductions without discharging excessive amounts of NO<SUB>2</SUB> to the atmosphere.

IPC 8 full level  
**F01N 3/023** (2006.01); **F02M 27/02** (2006.01); **B01D 53/90** (2006.01); **B01D 53/94** (2006.01); **C10L 1/10** (2006.01); **C10L 1/30** (2006.01); **C10L 10/02** (2006.01); **C10L 10/06** (2006.01); **C10L 10/14** (2006.01); **F01N 3/022** (2006.01); **F01N 3/035** (2006.01); **F02D 41/02** (2006.01); **F23C 6/04** (2006.01); **F23C 13/00** (2006.01); **F23J 7/00** (2006.01); **F23K 5/08** (2006.01)

CPC (source: EP KR US)  
**B01D 53/90** (2013.01 - EP US); **B01D 53/944** (2013.01 - EP US); **C10L 1/10** (2013.01 - EP US); **C10L 10/02** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP US); **C10L 10/14** (2013.01 - EP US); **F01N 3/00** (2013.01 - KR); **F01N 3/022** (2013.01 - EP US); **F01N 3/0231** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F23J 1/00** (2013.01 - KR); **F23J 7/00** (2013.01 - EP KR US); **F23K 5/08** (2013.01 - EP US); **B01D 2255/1021** (2013.01 - EP US); **B01D 2255/206** (2013.01 - EP US); **B01D 2255/20738** (2013.01 - EP US); **C10L 1/1208** (2013.01 - EP US); **C10L 1/1814** (2013.01 - EP US); **C10L 1/1881** (2013.01 - EP US); **C10L 1/305** (2013.01 - EP US); **F01N 2330/12** (2013.01 - EP US); **F01N 2370/02** (2013.01 - EP US); **F01N 2430/04** (2013.01 - EP US); **F01N 2510/065** (2013.01 - EP US); **F23K 2300/103** (2020.05 - EP US); **F23K 2900/05081** (2013.01 - EP US)

Cited by  
WO2024003254A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2005164139 A1 20050728**; AU 2006209361 A1 20060727; BR PI0606585 A2 20090707; CA 2595396 A1 20060727; CN 101175903 A 20080507; EP 1856383 A2 20071121; EP 1856383 A4 20101208; EP 1856383 B1 20121017; JP 2008526508 A 20080724; JP 5165384 B2 20130321; KR 20070107706 A 20071107; MX 2007008821 A 20070927; WO 2006078761 A2 20060727; WO 2006078761 A3 20070531; ZA 200706579 B 20080625

DOCDB simple family (application)  
**US 3828805 A 20050119**; AU 2006209361 A 20060119; BR PI0606585 A 20060119; CA 2595396 A 20060119; CN 200680008907 A 20060119; EP 06733748 A 20060119; JP 2007552246 A 20060119; KR 20077018835 A 20070817; MX 2007008821 A 20060119; US 2006001812 W 20060119; ZA 200706579 A 20070807